

1. A method of monitoring a liquid for the presence of (disease-modified or associated proteins,) comprising the steps of:

- Sub As

material. \rightarrow another example besides CaPO_4 needed to overcome scope requirement

- [illegible]

- ~~Method according to the present invention is used for~~

- According to
his calculations

- ~~ing
it
no
to~~

- RZ
6/30/2000

monitored using an enzyme
Western blotting or dot blot.

- Not
to be
used
for
other
purposes

or
OK

8. A method according to claim 7, wherein a second antibody which is conjugated to a marker enzyme is added to said complexed proteins so as to permit said second antibody to complex to said first antibody. *not for the antibody ok?*

9. A method according to claim 1, wherein said concentrated proteins are amplified using a polymerase chain reaction and then monitored by a restriction fragment length method. *Sub B3*

10. A method according to claim 1, wherein said concentrated proteins are used in a hybridization reaction and then monitored using Western blotting. *a*

11. A kit for carrying out an ELISA reaction, the kit comprising:

- (a) a solid, non-buoyant particulate material having free ionic valencies in a form capable of complexing with disease-modified or associated proteins present in a sample of liquid;
- (b) a blocking buffer capable of complexing with said particulate material not complexed with said proteins;
- (c) a first antibody material capable of complexing with said complexed proteins; and
- (d) a further antibody which is capable of complexing with said first antibody.

12. A kit according to claim 11, wherein said liquid is a sample of body fluid taken from an animal. *Sub A4*

13. A kit according to claim 12, wherein said sample of body fluid is urine. *Sub A4*

14. A kit according to claim 11, wherein said particulate material comprises calcium phosphate in granular form.

15. A method for concentrating disease-modified or associated proteins from a sample of liquid which comprises the following steps:

- (a) collecting and centrifuging said sample of liquid;
- (b) collecting the supernatant produced following centrifugation of said sample;
- (c) adding a buffer and a solid, non-buoyant particulate material having free ionic valencies to said supernatant;
- (d) centrifuging the resulting mixture of said buffer, said particulate material and said supernatant;
- (e) collecting said particulate material following centrifugation;
- (f) adding a buffer to said particulate material;
- (g) centrifuging said mixture of said buffer and said particulate material;
- (h) collecting said particulate material;
- (i) adding a buffer to said particulate material;
- (j) centrifuging a mixture of said buffer and said particulate material; and
- (k) collecting supernatant containing the disease-modified or associated proteins.

16. A method according to claim 15, wherein said liquid is a sample of body fluid taken from an animal.

17. A method according to claim 16, wherein said sample of body fluid is urine.

18. A method according to claim 15, wherein said particulate material comprises calcium phosphate in granular form.

19. A method of monitoring a liquid for the presence of biological material selected from the group consisting of disease-modified or associated proteins, a fragment thereof, a virus or a fragment thereof, comprising the steps of:

- (a) providing a sample of said liquid;
- (b) passing said sample through a solid filter (medium) having free ionic valencies so as to complex at least one of said biological material to said medium; and
- (c) monitoring at least a part of said complexed biological material, wherein the presence of at least a part of said biological material is indicative of an association of said liquid with the relevant disease.

20. A method according to claim 19, wherein said liquid is a sample of body fluid taken from an animal.

21. A method according to claim 20, wherein said sample of body fluid is urine.

22. A method according to claim 19, wherein said filter comprises a gauze fiber material.

23. A method according to claim 19, wherein said filter comprises a cotton fiber material.

24. A method according to claim 19, wherein said filter medium comprises a sheet-like member with a pore size ranging from 1 to 100 microns.
25. A method according to claim 19, wherein said complexed biological material is monitored using electron microscopy.
26. A method according to claim 19, wherein said complexed biological material is monitored using an enzyme linked immunosorbent assay (ELISA), *Western blotting or dot blot*
27. A method according to claim 26, in which a first antibody is added to said complexed biological material so as to permit said first antibody to complex with said complexed biological material. *Not further limiting*
28. A method according to claim 27, wherein a second antibody which is conjugated to a marker enzyme is added to said complexed biological material so as to permit said second antibody to complex to said first antibody. *Not further limiting*
29. A method according to claim 19, wherein said complexed biological material is amplified using a polymerase chain reaction and then monitored by a restriction fragment length method. *Sub 24*
30. A method according to claim 19, wherein said complexed biological material is used in a hybridization reaction and then monitored using Western blotting. *af*

31. A method of monitoring a liquid for the presence of biological material selected from the group consisting of disease-modified or associated proteins, a fragment thereof, a virus or a fragment thereof, comprising the steps of:
- (a) providing a sample of said liquid;
 - (b) contacting said sample with a solid, non-buoyant particulate material having free ionic valencies;
 - (c) centrifuging at least once, said mixture of said particulate material and said sample;
 - (d) collecting the supernatant and passing said supernatant through a solid filter medium having free ionic valencies so as to complex at least one of said biological material to said medium; and
 - (e) monitoring at least a part of said complexed biological material, wherein the presence of at least a part of said biological material is indicative of an association of said liquid with (the relevant disease.)
32. A method according to claim 31, wherein said liquid is a sample of body fluid taken from an animal.
33. A method according to claim 32, wherein said sample of body fluid is urine.
34. A method according to claim 31, wherein said particulate material comprises calcium phosphate in granular form.
35. A method according to claim 31, wherein said filter comprises a gauze fiber material.

36. A method according to claim 31, wherein said filter comprises a cotton fiber material.
37. A method according to claim 31, wherein said filter medium comprises a sheet-like member with a pore size ranging from 1 to 100 microns.
38. A method according to claim 31, wherein said complexed biological material is monitored using electron microscopy.
39. A method according to claim 31, wherein said complexed biological material is monitored using an enzyme linked immunosorbent assay (ELISA).
40. A method according to claim 39, in which a first antibody is added to said complexed biological material so as to permit said first antibody to complex with said complexed biological material.
41. A method according to claim 40, wherein a second antibody which is conjugated to a marker enzyme is added to said complexed biological material so as to permit said second antibody to complex to said first antibody.
42. A method according to claim 31, wherein said complexed biological material is amplified using a polymerase chain reaction and then monitored by a restriction fragment length method.

continued

not further limited

not further limited

- add a^7

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